

OVERHILLS SCHOOL

30 X 40 X 10'H OPEN SHELTER

6X6 POST 5' O.C

TRUSS 5' O.C

2X4 PURLINS ON TOP 2' O.C

29 GA PAINTED METAL TOP & GABLE ENDS

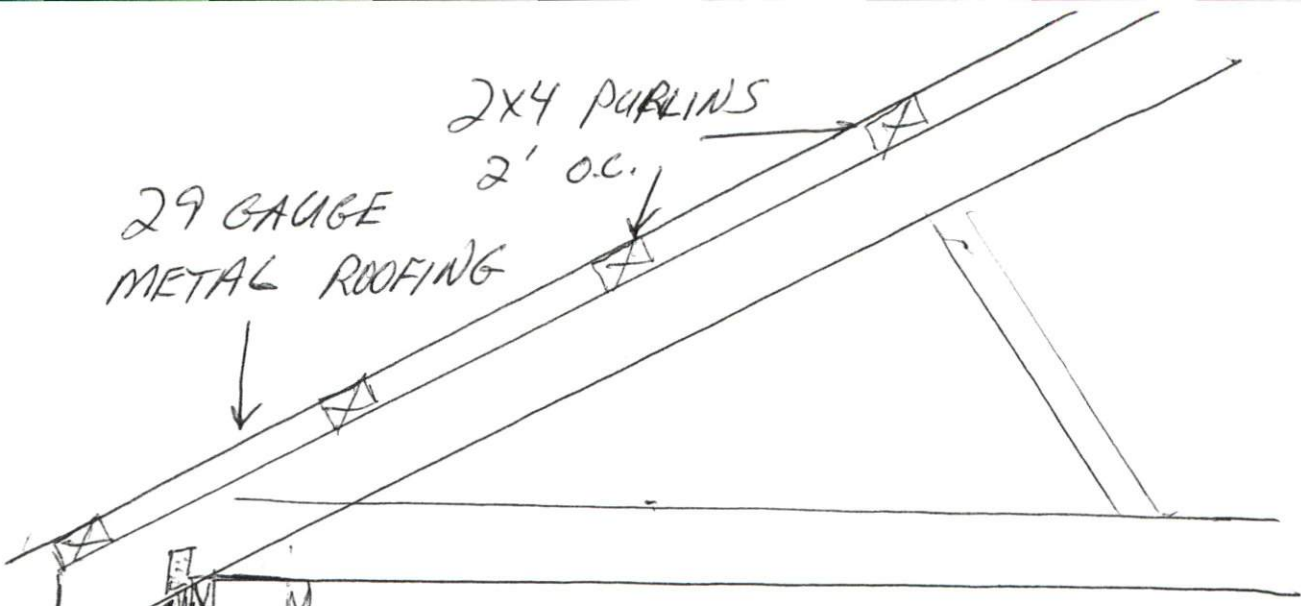
THIS STRUCTURE MAY NOT BE WITHIN 30 FEET
OF ANY OTHER STRUCTURE ON SITE.



30'



40'



2.5
HUR
TIE

2x6 BAND

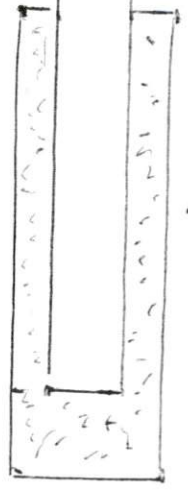
PRE-ENGINEERED
TRUSS
5' O.C.

6x6 POST 5' O.C

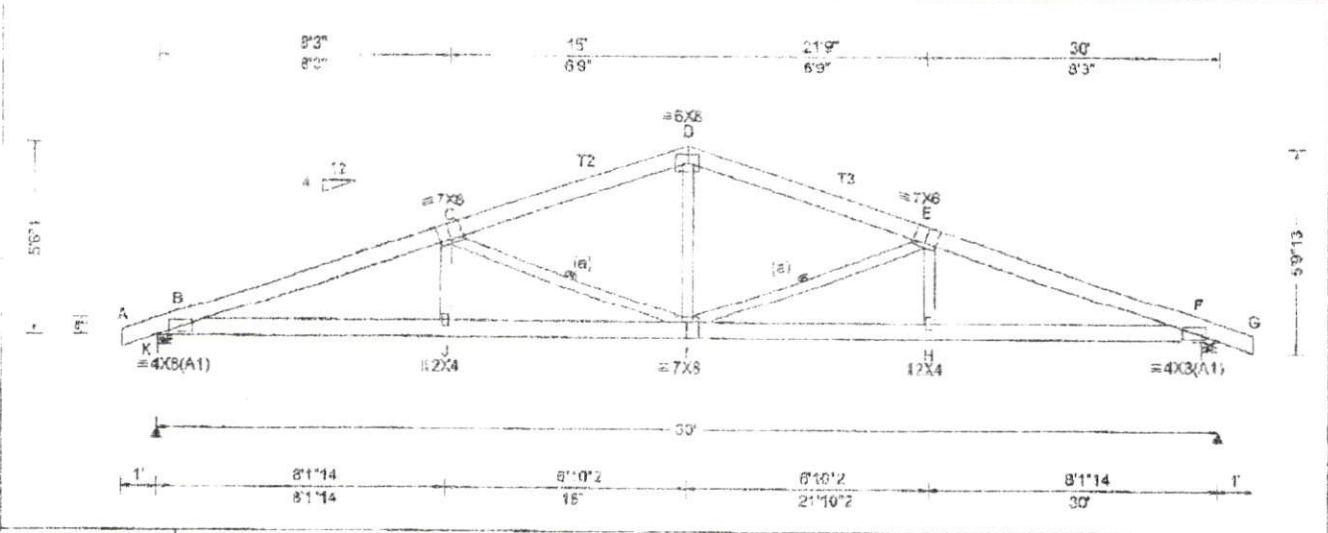
NOT TO
SCALE

12" x 36" HOLE
WITH CON-MIX
FOOTING + BACKFILL

6" CON MIX FOOTING



SEQN: 0799 COMM: Ply 1 Job Number: 0924 Cust: R9612 JR: 11Mc995120302 T1
 FROM: Qty: 8 Overhills Truss Label: A1 DwgNo: 052.22.0548.53383
 / FK 02/21/2022



Loading Criteria (psf) TCCLL: 20.00 TCCL: 5.00 BCCLL: 0.00 BCCL: 5.00 Des Ld: 30.00 NCBCCL: 0.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 60.0"	Wind Criteria Wind Std: ASCE 7-16 Speed: 120 mph Enclosure: Closed Risk Category: I EXP: C Kzt: NA Mean Height: 15.00 ft TCCL: 3.0 psf BCCL: 1.0 psf MWFRS Parallel Dist: 0 to hr/2 C&C Dist: 3.00 ft Loc. from endwall: Any GC: 0.18 Wind Duration: 1.60	Snow Criteria (Pg. 91 in PSF) Pg: NA Cti: NA CAt: NA Pt: NA Cst: NA Lst: NA Cst: NA Snow Duration: NA Building Code: IBC 2018 TP: Std: 2014 Rep. Fac: No FT: RT.20(0w)10(0) Plate Types: WAVE	Defl/CSI Criteria PP Deflection in lbc Udefl L/H VERT(L): 0.268 I 999 240 VERT(CL): 0.400 I 891 240 HORZ(L): 0.066 F - - HORZ(CL): 0.128 F - - Creep Factor: 2.0 Max TC CSt: 0.767 Max BC CSt: 0.791 Max Web CSt: 0.555 VIEW Ver: 20.02.01C.0113.09	Maximum Reactions (lbs) <table border="1"> <thead> <tr> <th>Loc</th> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>K</td> <td>2388</td> <td>-</td> <td>-</td> <td>1985</td> <td>1859</td> <td>1267</td> </tr> <tr> <td>F</td> <td>2388</td> <td>-</td> <td>-</td> <td>1985</td> <td>1859</td> <td>-</td> </tr> </tbody> </table> <p>Wind reactions based on MWFRS K Brg Wid = 5.5 Min Req = 2.8 F Brg Wid = 5.5 Min Req = 2.8 Bearings K & F are a rigid surface Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>B - C</td> <td>2941 - 5236</td> <td>D - E</td> <td>2204 - 3698</td> </tr> <tr> <td>C - D</td> <td>2204 - 3698</td> <td>E - F</td> <td>2643 - 5236</td> </tr> </tbody> </table> Maximum Bot Chord Forces Per Ply (lbs) <table border="1"> <thead> <tr> <th>Chords</th> <th>Tens.Comp.</th> <th>Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>B - J</td> <td>4350 - 2567</td> <td>- H</td> <td>4845 - 2515</td> </tr> <tr> <td>J - I</td> <td>4345 - 2567</td> <td>H - F</td> <td>4850 - 2514</td> </tr> </tbody> </table> Maximum Web Forces Per Ply (lbs) <table border="1"> <thead> <tr> <th>Webs</th> <th>Tens.Comp.</th> <th>Webs</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>C - I</td> <td>364 - 1683</td> <td>I - E</td> <td>955 - 1683</td> </tr> <tr> <td>D - I</td> <td>1405 - 662</td> <td></td> <td></td> </tr> </tbody> </table> </p>	Loc	R+	/R-	/Rh	/Rw	/U	/RL	K	2388	-	-	1985	1859	1267	F	2388	-	-	1985	1859	-	Chords	Tens.Comp.	Chords	Tens. Comp.	B - C	2941 - 5236	D - E	2204 - 3698	C - D	2204 - 3698	E - F	2643 - 5236	Chords	Tens.Comp.	Chords	Tens. Comp.	B - J	4350 - 2567	- H	4845 - 2515	J - I	4345 - 2567	H - F	4850 - 2514	Webs	Tens.Comp.	Webs	Tens. Comp.	C - I	364 - 1683	I - E	955 - 1683	D - I	1405 - 662		
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Lumber
 Top chord: 2x6 SP #1; T2,T3 2x6 SP #2;
 Bot chord: 2x6 SP #1;
 Webs: 2x4 SP #3;

Bracing
 (a) Continuous lateral restraint, equally spaced on member.

Loading
 Truss designed for unbalanced load using 0.00/1.00 windward/leeward factors

Purlins
 In use of structural panels use purlins to brace TC @ 24' oc.

Top and bottom chord of truss must have continuous lateral bracing at top chord and bottom chord spaced no more than 2' oc

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Wind loading based on gable roof types.



Engineering Services provided by ABCD Engineering P.LLC
 NCCOA # P-0898
 02/21/2022

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING.
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS
 Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCS1 (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCS1. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid soffit. Locations shown for permanent lateral restraint of truss shall have bracing installed per BCS1 sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. Refer to job's General Notes page for additional information.
 Alpine, a division of TPI/ Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page taking this drawing indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
 For more information see these web sites: Alpine: alpinebw.com; TPI: tpiinc.org; SBCA: sbccomponents.com; ICC: iccsale.org; AWC: awc.org

